



All In One

1000Wh 500W

1 kWh Outdoor & Home
Energy Storage Power

MESS-500W-01 Datasheet



Triple-in-One Design

Integrates Inverter, Battery,
and MPPT into a Single Unit



Plug-and-Play

Simply connect your appliances
and start using it instantly



Installation-Free

No complex installation required;
highly portable for easy use

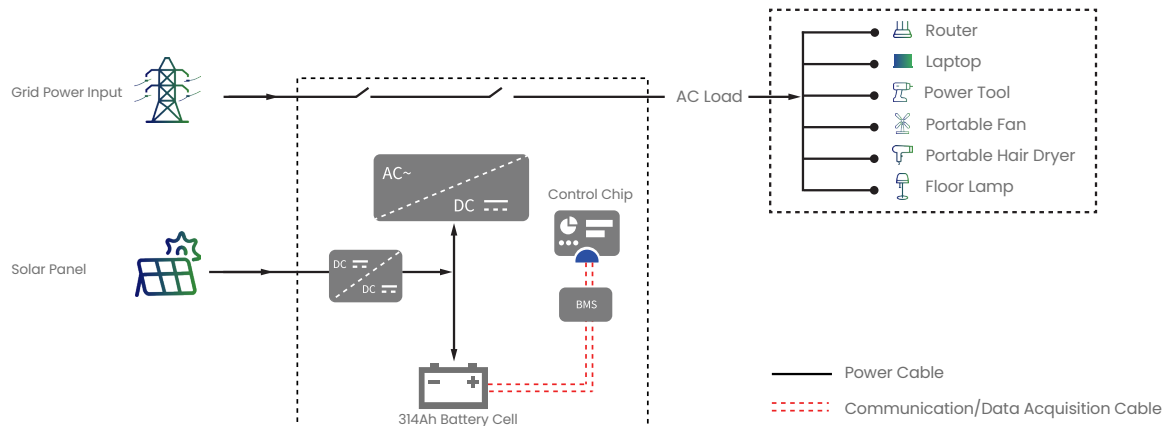


Exceptional Lifespan

Up to 8,000 Battery Cycles



MESS-500W-01 is a highly integrated off-grid energy storage system designed for outdoor and household use. It combines a high-power inverter, grid & MPPT charging, and UPS functionality. Utilizing long-cycle life battery cells, it delivers an exceptional user experience.



Product Model	MESS-500W-01
Inverter Output Power	500VA
AC Charging Power	500W
MPPT Charging Power	300W
AC Input	90~280V
AC Output	230V
DC Output	DC 12V max 48W USB 5V max 15W Type-C 5/9/12V max 20W
UPS Switching Time	≤20ms
PV Input	11~55VDC
Battery	LiFePo4 314Ah/3.2V/1004.8Wh
Cycles	Up to 8000 cycle
Weight	8.5KG
Dimensions(L*W*H)	L250*W140*H295mm
Operating Temperature	0~45 °C
Operating Humidity	0~95%
Operating Altitude	≤2000m
Protection Rating	IP20

Protection Functions AC Over/Under Voltage Protection / AC Over
Under Frequency Protection / Overload Protection Short Circuit Protection
AC Input Overcurrent Protection Overtemperature Protection
Overcharge/Overdischarge Protection / BMS Protection

*The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.
*The specifications are subject to change without prior notice.